

Hadronic and Electroweak Physics at MIT Bates Retrospective and Future Prospects

Thursday, September 28 Bartos Theater, Wiesner Building (E15)

8:00 Continental breakfast

Morning Session:

8:30-8:40 R. Silbey, Dean of Science

Welcome

8:40-9:40 S. Kowalski

Overview of Bates Physics and Technical Advances

9:40-10:30 D. Beck

Nucleon Structure from Parity-Violating Electron Scattering

10:30-10:50 Coffee Break

10:50-11:40 J. Negele

Exploration of Hadronic Physics using Lattice QCD

11:40-12:30 R. Alarcon

The Electromagnetic Form Factors of the Nucleon

12:30-1:30 Lunch

Afternoon Session:

1:30-2:20 C. Papanicolas

Exploring the Shape of the Nucleon from Out of Plane

2:20-3:10 X. Ji

Probing the Spin Degrees of Freedom in the Proton

3:10-4:00 B. Surrow

The High-Energy Polarized Proton-Proton Program at RHIC at BNL

4:00-4:15 move to 10-250 for Physics Department Colloquium

4:15-5:15 Physics Department Colloquium

D. Geesaman

Paths in Nuclear Structure

5:30-6:30 Wine and cheese reception, Bush Room 10-105

Friday, September 29**Bartos Theater, Wiesner Building (E15)**

Morning Session:

8:00 **Continental breakfast****8:30-9:20** **C. Tschalär**
*Bates Accelerator, Detectors, etc.***9:20-10:10** **W. Bertozzi**
*EM Insights into the Structure of Nuclei***10:10-10:40** **Coffee Break****10:40-11:30** **R. Redwine**
*Pion Physics in the Meson Factory Era***11:30-12:20** **A. Bernstein**
*Experimental Tests of Chiral Symmetry Breaking and the Axial Anomaly***12:30-1:30** **Lunch**

Afternoon Session:

1:30-2:20 **J. Formaggio**
*The Quest for Neutrino Mass***2:20-3:10** **J. Matthews**
*Photonuclear Reactions***3:10-3:40** **Coffee Break****3:40-4:30** **M. Kohl**
*Electromagnetic Studies with Polarized Deuterium***4:30-5:20** **M. Garcon**
*Tensor Polarization in Elastic Electron-Deuteron Scattering***7:30-10:00** **Banquet, University Park Hotel**
Banquet speaker: **E. Moniz** *Energy Policy*

Saturday, September 30 Bartos Theater, Wiesner Building (E15)

Morning Session:

8:30 Continental breakfast

9:00-9:50 N. Makins
HERMES: A Decade of Discovery

9:50-10:40 M. Pitt
Testing the Standard Model with Parity-Violating Electron Scattering

10:40-11:10 Coffee Break

11:10-12:00 G. Cates
The JLab Program moving into the 12 GeV Era

12:00-12:50 R. Milner
A High Luminosity Lepton-Ion Collider to study the Structure of Matter